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ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR

THE YEAR

1951.

Robert E. Robinson,
Medical Officer of Health.

BARROWFORD URBAN DISTRICT COUNCIL.

PUBLIC HEALTH STAFF.

Medical Officer of Health: Robert E. Robinson, M.A., M.R.C.S., L.R.C.P., D.P.H.

Surveyor & Sanitary Inspector: F. Highfield, A.R.I.C.S., M.I.Mun.E., M.R.San.I., C.R.S.I.

Assistance is given by the Sanitary Staff of the Public Health Department, Nelson, by arrangement between the two authorities.

PUBLIC HEALTH DEPARTMENT,

21, Carr Road,

NELSON.

30TH SEPTEMBER, 1952.

To the Chairman and Members of the
Barrowford Urban District Council:

Mr. Chairman and Gentlemen,

I have the honour to present my annual report for the year 1951.

Apart from a mild epidemic of Measles and a slight increase in the death rate, the year under review was quite a healthy year for Barrowford. The infantile mortality rate was 14 per 1,000 Live Births and the maternal mortality rate was nil. The conversions of waste water closets was 17, this is encouraging, but the rate could with advantage be increased.

This could also be applied to the building of new houses as nothing destroys the happy relations in a home as two ladies sharing a kitchen. The living of young persons with their in-laws has a catastrophic effect on the young people.

I am indebted to the Nelson Health Staff for their help in compiling this report and to your committee for their support.

I have the honour to be,
Mr. Chairman and Gentlemen,
Your obedient Servant,

R. E. ROBINSON.

Medical Officer of Health.

Local Legislation (including bye-laws) in force in the district.

Infectious Diseases (Notification) Act, 1889.

Infectious Diseases Prevention Act, 1890.

Public Health Amendment Act, 1890.

" " " " 1907.

" " " " " Pt. 2 Streets and Buildings.
Pt. 3 Sanitary Provisions (Except Sect. 39, 40, 41, 42, 50 and 51).
Pt. 4 Infectious Diseases (Except Sect. 58 and 67).
Pt. 6 Recreation Grounds.
Pt. 10 Miscellaneous (Except Sect. 94).

Byelaws.

New Streets and Buildings	- Adopted February, 1925.
Nuisances	- Adopted July, 1894.
Slaughter Houses	- Adopted July, 1894.
Offensive Trades	- Adopted July, 1894.
Common Lodging Houses	- Adopted July, 1894.
Clean Food - Handling &c.	- Adopted July, 1950.

Statistics and Social Conditions of the Area.

Area in acres	1387
Population - Census, 1931	5299
Registrar General's Estimate of Population, mid 1951. Home	4679

Note: This figure is an increase of 89 on the figure supplied for mid 1950.

Number of inhabited houses:	
(a) Census, 1931	1602
(b) End of 1951 according to rate books	1881
Rateable value	£29,141
Sum represented by a penny rate	£112

The chief industries of the district are cotton and silk weaving. Throughout the year employment has been very good.

VITAL STATISTICS.

	Males	Females	Total
Live Births - Legitimate	38	31	69
- Illegitimate	1	-	1
	39	31	70

Live Birth Rate per 1000 estimated home population:

Crude	15.0
Adjusted	16.6
Comparability Factor	1.11

Still Births	Males	Females	Total
	1	2	3

Still Birth Rate per 1000 total (Live and Still) Births 41

Still Birth Rate per 1000 estimated home population 0.64

	Males	Females	Total.
Deaths	42	48	90

Death Rate per 1000 of estimated home population:

Crude	19.2
Adjusted	15.6
Comparability Factor	0.81

Deaths from pregnancy, childbirth and abortion — Nil

Maternal mortality rate per 1000 total (Live and still) births - Nil

Deaths of infants under one year of age

	Males	Females	Total
Legitimate	1	-	1
Illegitimate	-	-	-

Infantile Mortality Rate

All infants per 1000 live births	14
Legitimate Infants per 1000 legitimate live births	14
Illegitimate infants per 1000 illegitimate live births	Nil

Deaths of infants under 4 weeks of age

	Males	Females	Total
Legitimate	1	-	1
Illegitimate	-	-	-

Neo-natal Mortality Rate per 1000 live births 21

BIRTHS.

During the year 70 live births were registered (39 males and 31 females) which is an increase of 23 (18 males and 5 females) on the previous year.

The Live Birth Rate for the year being 15.0 per 1000 estimated population, an increase of 4.8 per 1000 on the previous year and 1.8 per 1000 on the average rate for the 5 previous years (1946-1950).

The adjusted Birth Rate is 16.6 per 1000 of estimated population, the comparability factor being 1.11.

Only 1 illegitimate birth was registered and this represents 1.4% of the total live births, a decrease of 2.8% on the previous year.

STILL BIRTHS.

There were 3 Still Births registered (1 male and 2 females) which gave an Annual Still Birth Rate of 41 per 1000 total (Live and Still) births. This rate is an increase of 20 per 1000 on the figure for 1950.

DEATHS.

The total of 90 deaths (42 males and 48 females) registered during the year is an increase of 4 on the previous year, and gives an Annual Death Rate of 19.2 per 1000 estimated population, an increase of 0.5 per 1000 on the figure for 1950 and 1.9 per 1000 on the average rate for the 5 previous years (1946-1950).

The following tables show:-

1. Analysis of deaths according to causes.
2. Summary of ages at death.
3. Monthly analysis of deaths showing rates, and from these it will be seen that

(a) vascular lesions of the nervous system, coronary disease, and other heart diseases gave rise to the highest number of deaths,

(b) the age group 70-75 has the greatest number of deaths and that 78.8% of the total deaths were of persons 65 years of age or over,

(c) there was 1 death of a child under the age of 12 months,
(d) the largest number of deaths occurred in February.

Analysis of Deaths according to Causes.

Cause of Death	Number of Deaths			Death Rate per 1000 of population.
	M.	F.	Total	
Tuberculosis, respiratory	1	1	2	0.42
Tuberculosis, other	-	-	-	-
Syphilitic diseases	-	-	-	-
Diphtheria	-	-	-	-
Whooping Cough	-	-	-	-
Meningococcal infections	-	-	-	-
Acute poliomyelitis	-	-	-	-
Measles	-	-	-	-
Other infective and parasitic diseases	-	-	-	-
Malignant neoplasm, stomach	1	2	3	0.64
" "lung, bronchus	-	1	1	0.21
" " breast	-	1	1	0.21
" " uterus	-	2	2	0.42
Other malignant and lymphatic neoplasms	7	2	9	1.92
Leukaemia, aleukaemia	-	-	-	-
Diabetes	-	-	-	-
Vascular lesions of nervous system	9	7	16	3.41
Coronary disease, angina	5	7	12	2.56
Hypertension with heart disease	2	2	4	0.85
Other heart disease	5	9	14	2.99
Other circulatory disease	-	1	1	0.21
Influenza	1	1	2	0.42
Pneumonia	1	-	1	0.21
Bronchitis	3	7	10	2.14
Other diseases of respiratory system	-	-	-	-
Ulcer of stomach or duodenum	-	-	-	-

Cause of Death.	Number of Deaths			Death Rate per 1000 of population.
	M.	F.	Total	
Gastritis, enteritis and diarrhoea	-	-	-	-
Nephritis and nephrosis	1	1	2	0.42
Hyperplasia of prostate	1	-	1	0.21
Pregnancy, childbirth, abortion	-	-	-	-
Congenital malformations	-	-	-	-
Other defined and ill defined diseases	3	4	7	1.49
Motor vehicle accidents	1	-	1	0.21
All other accidents	1	-	1	0.21
Suicide	-	-	-	-
Homicide and operations of war	-	-	-	-
All causes	42	48	90	19.2

Summary of Ages at Death.

Age Groups	Deaths in Barrowford		Outward Transfers		Inward Transfers		Total deaths alloc. to Barrowford			% of each group to total deaths
	M.	F.	M.	F.	M.	F.	M.	F.	Total	
Over & under 1 yr.	-	-	-	-	1	-	1	-	1	1.1
1 2	-	-	-	-	-	-	-	-	-	-
2 5	-	-	-	-	1	-	1	-	1	1.1
5 10	-	-	-	-	1	-	1	-	1	1.1
10 15	-	-	-	-	-	-	-	-	-	-
15 20	-	-	-	-	-	-	-	-	-	-
20 25	-	1	-	-	-	-	-	1	1	1.1
25 30	-	-	-	-	-	-	-	-	-	-
30 35	-	-	-	-	-	-	-	-	-	-
35 40	-	1	-	-	-	-	-	1	1	1.1
40 45	-	1	-	-	-	-	-	1	1	1.1
45 50	-	-	-	-	-	-	-	-	-	-
50 55	1	1	-	-	-	-	1	1	2	2.2
55 60	-	1	-	-	1	2	1	3	4	4.5
60 65	4	-	1	-	2	2	5	2	7	7.8
65 70	2	7	-	-	4	4	6	11	17	18.9
70 75	6	7	-	-	4	4	10	11	21	23.3
75 80	5	7	-	2	4	2	9	7	16	17.8
80 85	4	4	1	-	-	2	3	6	9	10.0
85 90	4	2	1	-	1	-	4	2	6	6.7
90 95	1	1	-	-	-	-	1	1	2	2.2
95 100	-	-	-	-	-	-	-	-	-	-
Totals	27	33	3	2	19	16	43	47	90	100.0

Monthly Analysis of Deaths showing Rates.

Month	Actual deaths in Barrowford	Outward transfers	Inward transfers	Nett deaths for Barrowford. Number	Annual Death Rate
January	7	-	3	10	25.6
February	10	1	5	14	35.9
March	10	1	3	12	30.7
April	2	-	1	3	7.6
May	7	-	3	10	25.6
June	3	1	1	3	7.6
July	2	-	1	3	7.6
August	1	-	6	7	17.9
September	5	-	4	9	23.0
October	4	1	2	5	12.8
November	3	-	2	5	12.8
December	6	1	4	9	23.0
Totals	60	5	35	90	19.2

Infantile Mortality.

Only one death occurred of an infant under the age of 12 months and this was from broncho-pneumonia at age 3 days.

The death gives an Annual Infantile Mortality Rate of 14 per 1000 live births which is a decrease of 50 per 1000 on the previous year and 22 per 1000 on the average rate for the years 1946-50. The figure for England and Wales being 29.6 per 1000 live births.

Maternal Mortality.

There were no maternal deaths during the year.

Statistical tables in the appendix to this report show:

(a) Various Barrowford rates for the years 1946-1951 and the average of the 5 years 1946-1950.

(b) Birth Rates and Death Rates for England and Wales. County Boroughs, etc., for comparison with Nelson and Barrowford.

(c) Maternal Mortality Rates for England and Wales and figures for Nelson and Barrowford for comparison.

General Provision of Health Services for the Area.

Particulars of the Public Health Officers of the Authority are given on Page 2 of the report.

A comprehensive range of services is maintained by the Local Health Authority, Lancashire County Council, and these include Ambulance Service, Nursing in the Home, Clinic and Treatment Centres, (Minor Ailments, Orthopaedic, Ophthalmic, Dental, and Ante Natal).

Hospital services are provided by the Manchester Regional Hospital Board.

Laboratory Facilities.

The services of the Central Pathological Laboratory at Burnley are available for the use of your authority.

National Assistance Act, 1949 - Section 47.

It has not been found necessary to take any action under this section during the year.

Sanitary Circumstances of the Area.

Water Supply.

No change has taken place in the water supply, which is obtained from Nelson Corporation. The supply has been satisfactory in quantity and quality during the year, and at the end of the year it was estimated that 1,865 dwellinghouses with an assumed population of 4,725 had a direct supply of water from public mains. In addition there were 16 dwellinghouses, with approximately 40 inhabitants which have a private supply from wells or springs. All these latter houses are on the outskirts of the district where there is no access to public mains for water supply. There are no houses in the area supplied by means of stand-pipes.

Drainage and Sewerage.

The sewage disposal works are owned by the local authority and are situate on the outskirts of the area. There is a natural fall thereto from all parts. Treatment consists of automatic screening, detritus tanks, primary and secondary settling tanks, percolating filters, and humus tanks, the effluent being finally discharged into Pendle Water.

Only farms and a few houses are without a drainage system due to the distance from the main sewers.

Rivers and Streams.

Supervision is exercised by the Lancashire Rivers Board.

Closet Accommodation at end of 1951.

Privy middens:	
No. of middens	Nil
No. of closets attached to these middens	Nil
No. of pail closets	22
No. of dry ashpits (excluding middens)	Nil
No. of movable ashbins	1932
No. of trough closets	Nil
No. of waste water closets	773
No. of fresh water closets	689
No. of houses on water carriage system	1865
Conversions during 1951:	
No. of waste water closets to fresh water closets	17

Public Cleansing.

This is carried out by direct labour under the control and supervision of your Surveyor and Sanitary Inspector.

Household and trade refuse is collected weekly and disposed of by means of controlled tipping.

Cesspools are emptied monthly and pail closets twice monthly.

Sanitary Inspections during 1951.

No. of premises in general visited or inspected	88
No. of defects or nuisances discovered	324
No. of defects or nuisances abated	324
No. of Notices served - Informal	64
Statutory	-
No. of legal proceedings	-
No. of visits to infectious disease cases	14

Shops and Offices.

Under the Shops Act, 50 shops were inspected during the year and conditions were found to be satisfactory.

Under the Public Health Act, 1936, 9 offices were inspected and conditions found to be satisfactory.

Camping Sites.

No licences were issued by the local authority during the year under Section 269 of the Public Health Act, 1936, in respect of camping sites, but one licence was issued in respect of a caravan.

Atmospheric Pollution.

There are 8 factory or works chimneys within the district and 6 observations of these have been made during the year. The time limit allowed for the emission of black smoke is 10 minutes per hour and where this limit is exceeded informal notices are served. By this method and consultation with occupiers, some decrease in black smoke has resulted.

There are no spoil banks within the area.

Swimming Baths and Pools.

There are no public swimming baths or pools nor any privately-owned baths or pools open to the public in Barrowford, but public baths and an open air swimming pool in the Borough of Nelson provide facilities which are available to, and used by, Barrowford residents.

Disinfestation.

During the year no houses, owned by the Local Authority or otherwise, have been found to be infested. When cases are found, treatment is carried out by the local authority by means of D.D.T. spray.

Prevention of Damage by Pests Act, 1949.

Sewer and surface treatments have been carried out by the local authority during the year.

Schools.

Number of schools in the district	3
Sanitary conditions of schools:-	
(a) No. with unsatisfactory yard surfaces	3
(b) Sanitary accommodation - No. of schools with:-	
(1) Fresh water closets	2
(2) Waste water closets	1
(3) Trough closets only	-
(4) Pail closets only	-
(5) Privy closets only	-
(c) Refuse disposal - no. of schools with:-	
(1) Dustbins	3
(2) Dry ashpits	-
(d) Water supply - no. of schools supplied from:-	
(1) Public mains	3
(2) Private supplies	-
(e) No. of schools where facilities are considered unsatisfactory for:-	
(1) Washing	1
(2) Drinking	1
(f) Drainage - no. of schools with drainage to:-	
(1) Public sewers	3
(2) Private treatment works	-

The facilities for handling meals at the schools can be considered reasonably satisfactory.

Offensive Trades.

There are no offensive trades carried on within the area.

Factories Act, 1937.

Part I.

1. Inspections for purposes of provisions as to health.

Premises	No. on Register.	Inspections.	Number of: Written Notices	Occupiers prosecuted
(1) Factories in which Sect. 1,2,3, 4 & 6 are to be enforced by Local Authority.	1	1	-	-
(2) Factories not included in (1) in which Sect. 7 is enforced by the Local Authority.	32	33	1	-
(3) Other premises in which Sect. 7 is enforced by the Local Authority.	-	-	-	-
Total	33	34	1	-

2. Cases in which defects were found.

Particulars	Particulars of cases in which defects were found. Found	Remedied	Referred: To H.M. Inspector.	From H.M. Inspector.	No. of cases in which prosecutions were instituted
Sanitary conveniences (S.7) (a) insufficient.	1	1	-	-	-

Part VIII.

Outwork.

(Sections 110 and 111)

No notifications of outworkers have been received during the year.

Other Premises.

There are no Common Lodging Houses, Houses let in Lodgings, or Underground Sleeping Rooms within the area.

No inspections are made of canal boats.

Rag Flock and Other Filling Materials Act, 1951.

Number of registered premises at end of year on which rag flock or other filling materials were used in manufacture of bedding, toys, etc.	1
Number of licensed premises at end of year on which rag flock was	
(a) Manufactured, or manufactured and stored	Nil
(b) Stored only	Nil
Number of inspections during the year	2
Number of samples taken	Nil

Housing.

Number of new houses erected during the year:

1. By Local Authority	8 traditional permanent houses
2. By Other Local Authorities	Nil
3. By other bodies or persons	3 traditional permanent houses.

Inspections of dwellinghouses during the year:

1. No. of houses inspected for housing defects	64
2. No. of inspections made for the purpose	151
3. No. of houses found not to be in all aspects reasonably fit for human habitation	64

Remedy of defects during the year without service of formal notices

1. No. of houses rendered fit in consequence of informal action 64

Action under Statutory Powers:

1. Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 Nil
2. Proceedings under Public Health Acts:
   (a) No. of houses in respect of which notices were served requiring defects to be remedied Nil
   (b) No. of houses in which defects were remedied after service of formal notices -
      By owners Nil
      By local authority in default of owners Nil
3. Proceedings under sections 11 and 13 of the Housing Act, 1936 Nil
4. Proceedings under section 12 of the Housing Act, 1936 Nil

Housing Act, 1936 - Part IV - Overcrowding.

1. No. of dwellings overcrowded at end of year. Not known
2. No. of new cases of overcrowding reported during the year Nil
3. No. of cases of overcrowding relieved during the year Nil

Housing Act, 1949 -

Number of schemes submitted Nil
(a) By private individuals Nil
(b) By the Local Authority Nil

Housing Conditions.

There is little change generally in housing conditions and on the whole they are not unfavourable, although there are quite a number of houses not up to modern standards, which includes about 350 back-to-back houses. No doubt the cost of maintenance rather tends to delay the carrying out of repairs.

There are 170 families requiring Council houses according to the housing waiting list.

At the end of the year there were 22 houses in the course of construction by your authority, and a further 20 were contemplated.

In the built up area all houses are provided with an internal water supply, but amongst the older property there are still some houses where the supply is not fully adequate due to the houses being served with a common ½" service pipe.

With the exception of the back-to-back houses all houses have a separate water closet or other adequate sanitary accommodation.

Inspection and Supervision of Food.

Milk Supply.

The following action has been taken during the year with regard to the administration of the Milk and Dairies Acts and Regulations.

The Milk and Dairies Regulations, 1949 -
Number of registered distributors operating from:-

(a) Dairies in the district	1
(b) Dairy farms in the district	24
(c) Shops in the district other than dairies	7
(d) Premises outside the district	4

The Milk (Special Designation)(Raw Milk) Regulations, 1949 -
Number of dealers' licences (including supplementary licences) issued by the local authority during 1951 in respect of:

(a) "Tuberculin Tested" Milk	3
(b) "Accredited" Milk	-

The Milk (Special Designation)(Pasteurised and Sterilised Milk) Regulations, 1949.

Number of licences issued in respect of "heat treated" milk

(1) Pasteurising plants - (2) Sterilising plants -

(3) Retail distributors

(a) "Pasteurised" 4

(b) "Sterilised" 7

No refusal or revocation of a licence for graded milk has been found necessary.

No structural alteration or improvement has been carried out to dairies during the year.

The Lancashire County Council undertake the sampling of milk under the Food and Drugs Act, and legal samples are taken by their officers for analysis at the County Health Laboratory, Preston.

Informal samples of milk are taken by the staff of the Public Health Department, Nelson, and during the year 13 samples have been taken, with the following results:-

Methylene Blue Test (for keeping quality)

No. of samples taken.	Result of Test. Satisfactory.	Unsatisfactory.
8	7	1

Biological Examination (for Tubercle bacilli).

No. of samples taken.	Result of Test. Negative.	Positive.
5	5	-

Meat and Other Foods.

There is no licensed slaughter-house within the area and with the exception of the incidental slaughtering of cottagers' pigs, all slaughtering for the area continues to take place at the Colne Abattoirs. Licences for the slaughtering of cottagers' pigs are granted through the Ministry of Food and during the year 7 such licences were granted. In 4 cases notification of intention to slaughter was received and the carcase inspected, all of which were found fit for human consumption.

A general inspection is carried out of shops and other premises where food is prepared.

Food Poisoning.

No cases of food poisoning, or suspected cases, were reported during the year.

Food and Drugs Acts, 1938-50.

This Act is administered by the Lancashire County Council and samples for analysis are taken in the district by an officer of that authority.

Clean Food Campaign.

No action has been taken by the Council during the year.

Ice Cream.

At the end of the year 15 premises were registered under the Lancashire County Council (Rivers Board and General Powers) Act, 1938, 6 of these for the manufacture and sale of ice-cream and 9 for the sale only of ice-cream. These premises have been regularly inspected during the year, and as the result of advice given under the Ice Cream Heat Treatment Regulations one manufacturer has installed a recording thermometer, and two others have placed orders for same. The remaining 3 manufacturers use the complete "cold mix" method.

Prevalence and Control over Infectious Diseases.

During the year 78 cases of infectious disease were notified, particulars of which are shown in the following table.

Notifiable Disease.	Total cases of all ages	Total cases notified Age period - years									Total Deaths
		0-	1-	3-	5-	10-	15-	25-	45-	65 and over	Age not known	
Scarlet Fever	12	-	-	3	9	-	-	-	-	-	-	-
Measles	55	3	9	24	19	-	-	-	-	-	-	-
Whooping Cough	9	-	3	1	5	-	-	-	-	-	-	-
Ophthalmia Neonatorum	1	1	-	-	-	-	-	-	-	-	-	-
Erysipelas	1	-	-	-	-	-	-	1	-	-	-	-
Totals	78	4	12	28	33	-	-	1	-	-	-	-

The arrangement has been maintained whereby the enquiries into, and the following up, of cases of infectious disease is carried out by the staff of the Public Health Department, Nelson, under my direction.

Four cases were moved to isolation hospital during 1951, and these were 2 cases of scarlet fever and 2 cases of measles.

An outbreak of measles during the latter months of 1950 continued into 1951, but only 21 cases were reported during the early months of the year. At the end of November, another outbreak occurred and up to the end of the year 34 cases were notified.

Scarlet fever also became evident during the last quarter of the year and 11 cases were notified.

Tuberculosis.

Five new cases of tuberculosis, all respiratory, were notified during 1951, and two deaths were registered from this disease. Both the latter cases had been notified previously as suffering from pulmonary tuberculosis.

The following table shows the above cases according to age group and sex:-

Age Periods	New Cases				Deaths			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
5-10 yrs	-	1	-	-	-	-	-	-
20-25 yrs	1	-	-	-	-	1	-	-
35-45 yrs	-	2	-	-	-	-	-	-
75 & upwards	1	-	-	-	1	-	-	-
Totals	2	3	-	-	1	1	-	-
	5		-		2		-	

At the end of the year there were 29 cases on the register, 22 respiratory cases (13 males and 9 females) and 7 non-respiratory cases (1 male and 6 females).

The figures do not show any excessive incidence or mortality from tuberculosis in any particular occupation and no action has been found to be necessary during the year underthe Public Health (Prevention of Tuberculosis) Regulations, 1925, or under the Public Health Act, 1936, Section 172.

Table D in the appendix shows the attack rate for certain infectious diseases for the whole of the country and sub-divisions thereof, and the Nelson and Barrowford figures have been added for comparison.

Disinfection after Infectious Diseases.

The arrangement between your authority and the Borough of Nelson, whereby this work is carried out by the staff of the Public Health Department, Nelson, continues to operate and during the year 10 houses, 65 articles of bedding and 23 articles of clothing have been disinfected.

Formalin spray and vapour is used for the premises and infected articles of bedding and clothing are subjected to steam disinfection, the apparatus used being situate at the Distructor Works, Charles Street, Nelson and owned by Nelson Corporation.

APPENDIX A.

Various Barrowford Rates for the years 1946-1951 and the average of the 5 years 1946-1950.

Year	Live Births		Deaths (all causes)		Stillbirths		Maternal Mortality		Infant Mortality			
									Total		Neo-natal	
	No. registered	Rate per 1,000 pop'n	No. registered	Rate per 1,000 pop'n	No. registered	Rate per 1,000 total births	No. of deaths registered	Rate per 1,000 total births	No. of deaths registered	Rate per 1,000 live births	No. of deaths registered	Rate per 1000 Live Births
1951	70	¥ 15.0	90	ø 19.2	3	41	Nil	Nil	1	14	1	14
1950	47	10.2	86	18.7	1	21	Nil	Nil	3	64	1	21
1949	68	14.9	81	17.7	3	42	Nil	Nil	4	59	-	-
1948	68	15.1	71	15.7	1	14	1	14.49	1	14	-	-
1947	64	13.6	84	17.9	Nil	Nil	Nil	Nil	Nil	Nil	-	-
1946	55	11.9	74	16.0	3	51	Nil	Nil	3	54	-	-
Avge. 5 yrs 1946-1950	-	13.2	-	17.3	-	26	-	3.23	-	36	-	-

¥ Adjusted (live birth rate (comparability factor 1.11) = 16.6 per 1,000
ø " (death rate (comparability factor 0.81) = 15.6 per 1,000

APPENDIX B.

Showing Birth Rates, Death Rates and Analysis of Mortality for the year 1951.

	Eng. and Wales	126 County Boro's and Great Towns inc. London	148 Towns pop. 25000 to 50000 1931 Census	London Adm. County	Nelson	Bilford.
Rates per 1,000 Home Population						
Live Births	15.5	17.3	16.7	17.8	13.6	15.0
Still Births	0.36	0.45	0.38	0.37	0.37	0.64
Deaths:						
All causes	12.5	13.4	12.5	13.1	16.9	19.2
Typhoid & Paratyphoid	0.00	0.00	0.00	-	-	0.00
Whooping Cough	0.01	0.01	0.01	0.01	0.03	1.92
Diphtheria	0.00	0.00	0.00	0.00	0.00	0.00
Tuberculosis	0.31	0.37	0.31	0.38	0.23	1.06
Influenza	0.38	0.36	0.38	0.23	0.50	0.42
Smallpox	0.00	0.00	0.00	0.00	0.00	0.00
Acute Poliomyelitis & polioencephalitis	0.00	0.01	0.01	0.00	0.00	0.00
Pneumonia	0.61	0.65	0.63	0.61	0.61	0.21
Rates per 1000 Live Births.						
Deaths:						
All causes under 1 year	* 29.6	33.9	27.6	26.4	28.0	14.0
Enteritis & diarrhoea under 2 yrs	1.4	1.6	1.0	0.7	0.0	0.0

* Per 1,000 related live births

Columns 1-4 Figures supplied by Registrar General.

APPENDIX C.

Maternal Mortality.

Cause	England & Wales No. of Deaths	England & Wales Rates per 1000 Total (Live & Still) Births.	Nelson No. of Deaths	Nelson Rates per 1000 Total (Live and Still) Births	Barrowford. No. of deaths.	Barrowford. Rates per 1000 Total (Live & Still) Births
Sepsis of pregnancy, childbirth and the puerperium	70	0.10	-	-	-	-
Abortion with toxaemia	3	0.00	-	-	-	-
Other toxaemia of pregnancy and the puerperium	167	0.24	-	-	-	-
Haemorrhage of pregnancy and childbirth	91	0.13	-	-	-	-
Abortion without mention of sepsis or toxaemia	37	0.05	1	2.10	-	-
Abortion with sepsis	66	0.09	-	-	-	-
Other complications of pregnancy, childbirth and the puerperium	125	0.18	-	-	-	-

Abortion Mortality per million women aged 15-44 years.

	England & Wales
Abortion with toxaemia	0
Abortion without mention of sepsis or toxaemia	4
Abortion with sepsis	7

Columns 1 & 2 Figures supplied by Registrar General.

APPENDIX D.

Case-rates for certain Infectious Diseases during the year 1951.

	Eng. and Wales	126 County Boro's and Great Towns inc. London	148 Towns pop. 25000 to 50000 1931 Census	London Adm. County	Nelson	B'ford.
NOTIFICATIONS: (corrected)	Rates per 1000 Home Population.					
Typhoid Fever	0.00	0.00	0.00	0.01	0.00	0.00
Paratyphoid fever	0.02	0.03	0.02	0.01	0.00	0.00
Meningococcal infection	0.03	0.04	0.03	0.03	0.02	0.00
Scarlet Fever	1.11	1.20	1.20	1.10	1.78	2.56
Whooping Cough	3.87	3.62	4.00	3.11	1.31	1.92
Diphtheria	0.02	0.02	0.03	0.01	0.00	0.00
Erysipelas	0.14	0.15	0.12	0.15	0.00	0.21
Smallpox	0.00	0.00	0.00	-	-	-
Mealses	14.07	13.93	14.82	14.64	5.54	11.75
Pneumonia	0.99	1.04	0.96	0.72	1.05	0.00
Acute polio-myelitis incl. polio ence-phalitis						
Paralytic	0.03	0.03	0.03	0.02	0.05	0.00
Non-paralytic	0.02	0.02	0.03	0.02	0.00	0.00
Food Pois'g	0.13	0.15	0.08	0.23	0.38	0.00
	Rates per 1000 Total (Live and Still) Births.					
Puerperal fever and Pyrexia	10.66	13.77	8.08	14.90	0.05	0.00

Columns 1 - 4
Figures supplied by Registrar General.